**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

Unknown

Filing Date:

Herewith

Applicant:

Winkelmann et al.

Group Art Unit:

Unknown

Examiner:

Unknown

Title:

METAL HYDRIDE HEATING ELEMENT

Attorney Docket:

8540G-000161

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

#### **INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

## I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

#### II. COPIES

- A. \_\_\_\_ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.
- B. \_\_\_\_ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

#### U.S. Serial Number

#### U.S. Filing Date

C. X Because the present application was/is being filed after June 30, 2003, no
copies of the U.S. patents or U.S. patent application publications which are listed
on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D.\_\_\_\_This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

## III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. <u>X</u> Ex	cept as may t	oe indicated	below in (B),	all of the	patents,	publications or
other infor	mation are in	the English	language (co	ncise exp	lanation	not required).

B. \_\_\_ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

ا	_See	the	attached	foreign	patent	office	communication	from	а
	cour	iterpa	art foreign	applicati	on:				

2.\_\_\_English translations are provided:

3. Other:

C. \_\_\_ The following additional information is provided for the Examiner's consideration.

## IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. \_\_\_ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

**Art Unit** 

## V. THIS IDS IS BEING FILED UNDER

A. X 37 C.F.R. § 1.97(b): (check only one box)

1. X within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required. 2. \_\_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p). 4. \_\_\_\_ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required. B.\_\_\_\_ 37 C.F.R. § 1.97(c): (check <u>only</u> one box) • before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution. 1. \_\_\_\_ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). 2. \_\_\_\_ See the certification below. No fee is required. C. \_\_\_\_ 37 C.F.R. § 1.97(d): • after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. 1. \_\_\_ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) The undersigned hereby certifies that: A.\_\_\_each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application

not more than three months prior to the filing of this IDS (See 37 C.F.R. §

VI.

- 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or
- B. \_\_\_\_ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C.\_\_\_Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

### VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

## VIII. PAYMENT OF FEES (check only one box)

- A. \_\_\_\_ A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. \_\_\_\_ Please charge Deposit Account No. 07-0960 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 07-0960.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 07-0960.

Respectfully submitted,

Dated: 8 0C7 3063

Linda M. Deschere

Reg. No. 34,811

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

#### FORM HDP-1449 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.		
8540G-000161	Unknown		
APPLICANT			
Winkelmann et al.			
FILING DATE	GROUP	_	
Herewith	Unknown		

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		Re. 34,588	04-19-1994	Hong		
2.		5,104,753	04-14-1992	Sakai et al.		
3.		5,104,753	04-14-1992	Sakai et al.		
4.		5,387,478	02-07-1995	Muta et al.		
5.		5,450,721	09-19-1995	Golben et al.		
6.		6,015,041	01-18-2000	Heung		
7.		6,068,941	05-30-2000	Fuller et al.		
8.		6,358,638	03-19-2002	Rock et al.		
9.		6,372,376	04-16-2002	Fronk et al.		
10.		6,596,426	07-22-2003	Yang et al.		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials			
1.		Blair, S.L. et al., "Modification of AB <sub>2</sub> and AB <sub>5</sub> Alloys With Two-Dimensional Material (TDM) for Battery Applications		
2.		Joubert, J.M. et al., "A Structural Study of the Homogeneity Domain of LaNi <sub>5</sub> , Journal of Solid State Chemistry, 166, 1-6 (2002), pp. 1-6		
3.		Ergenics Website (http://www.ergenics.com/page 11.htm, "How Hydrides Work")		
4.		HERA Hydrogen Website (http://www.herahydrogen.com/en/tech_stores.html), "Storage of Hydrogen In Reversible Metal Hydrides"		
5.		HERA Hydrogen Website (http://www.herahydrogen.com/en/tech_materials.html), "HERA's Hydride Materials"		
6.		Sandia Labs Website (http://hydpark.ca.sandia.gov/PropLstFrame.html) Formula LaNi <sub>5</sub>		

Examiner:	Date Considered:

### FORM HDP-1449 (Based on Form PTO-1449)

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(Use several sheets if necessary)

Sheet 2 of 2

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8540G-000161	Unknown		
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Winkelmann et al.			
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Herewith	Unknown		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials		
7.		Sandia Labs Website (http://hydpark.ca.sandia.gov/PropLstFrame.html) Formula MmNi <sub>5</sub>	
8.		Sandia Labs Website (http://hydpark.ca.sandia.gov/PropLstFrame.html) Formula TiFe	

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Examiner.	Date Considered:
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